

<b>U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE</b>  <b>INFORMATION DISCLOSURE STATEMENT</b> (Use several sheets if necessary)				ATTY. DOCKET NO. 660119.401		APPLICATION NO. 10/811,310	
				APPLICANTS Jeffrey J. Berkley et al.			
				FILING DATE March 26, 2004		GROUP ART UNIT 2629	
<b>FOREIGN PATENT DOCUMENTS</b>							
		DOCUMENT NUMBER	DATE	COUNTRY			TRANSLATION
							YES NO
	AA	2006-024041	01/26/06	JP			
<b>OTHER PRIOR ART</b> <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>							
	AA	Berkelman et al. "Design of a Hemispherical Magnetic Levitation Haptic Interface," 1996 ASME Mechanical Engineering Congress and Exposition, Atlanta, November 17-22 1996, DSC-Vol. 58 pp. 483-488					
	AB	Bouguila et al., "New Haptic Device for Human-Scale Virtual Environment: Scaleable-SPIDAR," International Conference on Artificial Reality and Tele-Existence (ICAT97), Tokyo, Japan, pp. 93-98. 1997.					
	AC	Brooks, et al., "Project GROPE – Haptic Displays for Scientific Visualization," Computer Graphics 24(4):177-185, 1990.					
	AD	Fabiani et al., "Human Interface Using the Rutgers Master II Force Feedback Interface, Proceedings of VRAIS'96, pp. 54-59.					
	AE	Gomez et al., "Integration of the Rutgers Master II in a Virtual Reality Simulation," Proceedings of the Virtual Reality Annual International Symposium (VRAIS '95), pp 198-202.					
	AF	Inoue et al., "A New Force Computation Method for Wire Driven Force Display," The Institute of Image Information and Television Engineers, HIR 2001-54, NIM 2001-63, 6 pages.					
	AG	Ishii et al, "A 3D Spatial Interface Device Using Tensed Strings," Presence, Vol. 3 No.1, Winter 1994, pp. 81-86.					
	AH	Ishii et al., "Networked SPIDAR: A Networked Virtual Environment with Visual, Auditory, and Haptic Interaction," Presence, Vol. 3 No. 4, Fall 1994, pp. 351-359.					
	AI	Iwata, "Artificial Reality with Force-feedback: Development of Desktop Virtual Space with Compact Master Manipulator," Computer Graphics, Vol. 24, No. 4, August 1990, pp. 165-170.					
EXAMINER				DATE CONSIDERED			
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	AA		Kawamura et al., "A New Type of Master Robot for Teleoperation Using a Radial Wire Drive System," Proceedings of the 1993 IEEE/RSJ International Conference on Intelligent Robots and Systems, Yokohama, Japan, pp. 55-60, 1993.		
	AB		Kawamura et al., "Development of an Ultrahigh Speed Robot FALCON using Wire Drive Systems," IEEE International Conference on Robotics and Automation, pp. 215-220, 1995.		
	AC		Kim et al., "Personal VR system for rehabilitation to hand movement," ICAT'98, pp. 102-108.		
	AD		Kim, "A Proposal of 7 DOFs Force Display: SPIDAR-G", Ph.D dissertation, Tokyo Institute of Technology, December 2004, 102 pages.		
	AE		Kushida et al., "A Proposal of Free Form Modeling Method Based on Glass-work Metaphor," The Institute of Electronics, Information and Communication Engineers, Technical Report of IEICE, MVE2000-33 (2006-6), pp. 11-17.		
	AF		Massie, "Design of a Three Degree of Freedom Force-Reflecting Haptic Interface," Bachelor of Science Thesis, Massachusetts Institute of Technology, 39 pages, 1993.		
	AG		MPB Technologies Inc., "6 DOF Haptic Interface," retrieved February 22, 2010, from <a href="http://www.mpb-technologies.ca/mpbt/mpbt_web_2009/_en/6dof/index.html">http://www.mpb-technologies.ca/mpbt/mpbt_web_2009/_en/6dof/index.html</a> , 5 pages.		
	AH		MPB Technologies Inc., "7 DOF Haptic Interface," retrieved February 22, 2010, from, <a href="http://www.mpb-technologies.ca/mpbt/mpbt_web_2009/_en/7dof/features.html">http://www.mpb-technologies.ca/mpbt/mpbt_web_2009/_en/7dof/features.html</a> , 4 pages.		
	AI		Sato et al., "A Proposal of 7 DOF Force Display Using 8 Strings", The Institute of Image Information and Television Engineers, HIR2000-100, NIM2000-100, 6 pages.		
	AJ		Sato et al., "Space Interface Device for Artificial Reality – SPIDAR," Systems and Computers in Japan, Vol. 23, No. 12, pp. 44-54, 1992, Translated from Denahi Joho Tsushin Gakkai Ronbunshi, Vol. 74-D-II, No. 7, July 1991, pp. 887-894.		
	AK		Sato, "Haptic Interface SPIDAR," Japanese publication, 7 pages, date unknown.		
	AL		Turner et al., "Preliminary Tests of an Arm-Grounded Haptic Feedback Device in Telemanipulation," Proceedings of the ASME IMECE Haptics Symposium, Anaheim, CA, November 1998, 5 pages.		
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	AA	Walairacht et al., "Two-Handed Multi-Fingers String-Based Haptic Interface Device," IEICE Trans. Inf. & Syst., Vol. E 84-D, No. 3 March 2001, pp. 365-373.	
	AB		
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